according to Regulation (EC) No. 1907/2006



STAPA IL HYDROLAN 618 Aluminium Paste

 Version
 Revision Date:
 SDS Number:
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 102000000226
 Date of first issue: 02.01.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : STAPA IL HYDROLAN 618 Aluminium Paste

Material number : 020181HV0

1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH

Guentersthal 4 91235 Hartenstein

Telephone : +499152770

Telefax : +499152777008

E-mail address of person

responsible for the SDS

: msds.eckart@altana.com

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:

From outside US: : (001) 352-323-3500

(First call in English, response in your language is possible)

US & Canada (toll free) : 1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1 H228: Flammable solid.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable.

Irritant R36: Irritating to eyes.

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R67: Vapours may cause drowsiness and

dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger

Hazard statements : H228 Flammable solid.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements : Prevention:

P210 Keep away from heat/sparks/open

flames/hot surfaces. No smoking.

P240 Ground/bond container and receiving

equipment.

P280 Wear protective gloves/ eye protection/ face

protection.

P261 Avoid breathing vapours.

Response:

P312 Call a POISON CENTER/doctor if you feel

unwell.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P304 + P340 IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable

for breathing.

P370 + P378 In case of fire: Use for extinction: Special

powder for metal fires.

P370 + P378 In case of fire: Use for extinction: Dry sand.

Storage:

P403 + P233 Store in a well-ventilated place. Keep

container tightly closed.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

Hazardous components which must be listed on the label:

67-63-0 isopropanol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No information available.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
aluminium powder (stabilised)	7429-90-5 231-072-3 01-2119529243-45	F; R11	Flam. Sol. 1; H228	>= 50 - <= 100
isopropanol	67-63-0 200-661-7 01-2119457558-25	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 25 - < 50
N-(3- (trimethoxysilyl)pro pyl)ethylenediamin e	1760-24-3 217-164-6 01-2119970215-39	N; R51/53 Xn; R20 Xi; R41 Xi; R43	Acute Tox. 4; H332 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 0.1 - < 0.25

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move the victim to fresh air.

Do not leave the victim unattended.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : Consult a physician after significant exposure.

If unconscious place in recovery position and seek medical

advice.

In case of skin contact : Wash off immediately with soap and plenty of water.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

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If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

: No information available. Treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry sand

Special powder against metal fire

Unsuitable extinguishing

media

: Water

Foam

Carbon dioxide (CO2)

ABC powder

5.2 Special hazards arising from the substance or mixture

This information is not available.

5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

> Use personal protective equipment. Use personal protective equipment.

Avoid dust formation.

Remove all sources of ignition.

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6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Do not flush with water.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep away from heat and sources of ignition.

Avoid dust formation.

Ensure adequate ventilation.

Avoid formation of respirable particles.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Earthing of containers and apparatuses is essential. Take measures to prevent the build up of electrostatic charge. Use

explosion-proof equipment.

Avoid dust formation. Keep away from open flames, hot

surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in

use. Keep away from sources of ignition - No smoking.



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No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the

technological safety standards.

Further information on storage conditions

: Protect from humidity and water. Do not allow to dry.

Advice on common storage : Do not store together with oxidizing and self-igniting products.

Never allow product to get in contact with water during

storage.

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Storage class (TRGS 510) : 4.1B, Flammable solid hazardous materials

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		(Version Date)
aluminium powder	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40
(stabilised)	7 423 30 0	1 vv/ (minalable)	i to mg/mo	(2011-12-01)
Further information	The COSHH	definition of a substa	nce hazardous to health incl	udes dust of
	any kind wher	n present at a concei	ntration in air equal to or grea	ater than 10
			dust or 4 mg.m-3 8-hour TW	
			I be subject to COSHH if peo	
			e dusts have been assigned	•
			ly with the appropriate limit.,	
	exposure sho	•	s listed, a figure three times	the long-term
aluminium powder	7429-90-5	TWA	4 mg/m3	GB EH40
(stabilised)	7 423 30 0	(Respirable)	mg/mo	(2011-12-01)
Further information	The COSHH definition of a substance hazardous to health includes dust of			
			ntration in air equal to or grea	
	mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable			
			I be subject to COSHH if peo	
	exposed above these levels. Some dusts have been assigned specific WELs			
	and exposure to these must comply with the appropriate limit., Where no			
	specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium powder	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40
(stabilised)	7 120 00 0	1 VV/ (IIIII alabib)	To mg/mo	(2005-04-06)
Further information	For the purposes of these limits, respirable dust and inhalable dust are those			



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	fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium powder	7429-90-5	TWA	4 mg/m3	GB EH40
(stabilised) Further information				
aluminium powder (stabilised)	7429-90-5	TWA (inhalable dust)	10 mg/m3	GB EH40 (2011-12-01)
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any			

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aluminium powder (stabilised) Further information	8-hour TWA of This means the above these less exposure to the dusts contain and fate of an and the body particle. HSE 'inhalable' and airborne mates therefore avairapproximates lung. Fuller de Where dusts of relevant limits exposure limits exposure limits exposure limits used 7429-90-5 For the purpose fractions of air in accordance sampling and COSHH definition when present the series of an and the body particle. HSE 'inhalable' and airborne mates therefore avairance to the dusts contain and fate of an and the body particle. HSE 'inhalable' and airborne mates therefore avairance to the dusts contain and fate of an and the body particle. HSE 'inhalable' and airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates therefore avairance of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborne mates of the dusts contain and fate of an airborn	of inhalable dust or 4 at any dust will be sevels. Some dusts have seemust comply will particles of a wide ray particular particle are sponse that it elicit distinguishes two sized trespirable. Inhalable for deposition into the fraction that particular components about a becomplied is listed, a figure through the final that enters the new the final that enters the new the final to the fraction that particular components about a becomplied is listed, a figure through the final that enters the new that any dust will be sevels. Some dusts have seem ust comply will particles of a wide ray particular particle are sponse that it elicit distinguishes two sized the for deposition in lable for deposition in the final that enters the new the for deposition in the first particular distinguishes two sized the for deposition in the first particular deposition in the first particular distinguishes two sized for deposition in the first particular distinguishes two sized for deposition in the first particular distinguishes two sized for deposition in the first particular distinguishes two sized for deposition in the first particular particula	ion in air equal to or greater to mg.m-3 8-hour TWA of respirable to COSHH if people are ave been assigned specific Wath the appropriate limit., Most ange of sizes. The behaviour, after entry into the human resist, depend on the nature and the fractions for limit-setting puble dust approximates to the ose and mouth during breath in the respiratory tract. Respiratory material are given in Mithat have their own assigned with., Where no specific shore times the long-term exposite times the long-term exposite entry in the mature and inhalable of hazardous to health includes ion in air equal to or greater to mg.m-3 8-hour TWA of respirable to COSHH if people are ave been assigned specific Wath the appropriate limit., Most ange of sizes. The behaviour, after entry into the human resist, depend on the nature and the fractions for limit-setting puble dust approximates to the ose and mouth during breath in the respiratory tract. Respirators to the gas exchange the potentials the potentials the potentials the potentials to the gas exchange the potentials the potentials the potentials the potent	rable dust. re exposed VELs and t industrial deposition piratory system size of the urposes termed fraction of ing and is rable dust ge region of the DHS14/3., WEL, all the rt-term sure should be GB EH40 (2011-12-01) dust are those g is undertaken ral methods for ust, The dust of any han 10 mg.m-3 irable dust. re exposed VELs and t industrial deposition piratory system size of the urposes termed fraction of ing and is rable dust
	approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be			
	used	is listed, a figure till	ee times the long-term expos	sare snould be
isopropanol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40 (2006-09-01)
isopropanol	67-63-0	STEL	500 ppm 1,250 mg/m3	GB EH40 (2006-09-01)
silicon dioxide	7631-86-9	TWA (Inhalable)	6 mg/m3	GB EH40 (2007-08-01)
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any			

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	used				
silicon dioxide	7631-86-9	TWA	2.4 mg/m3	GB EH40	
Further information		(Respirable)		(2007-08-01)	
silicon dioxide	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
silicon dioxide	7631-86-9	TWA (inhalable dust)	6 mg/m3 (Silica)	GB EH40 (2011-12-01)	
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and				



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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium (7429-90-5)	Workers	Inhalation	long term – local effects	3.72 mg/m3
	Consumers	Oral	long term – systemic effects	3.95 mg/kg
propan-2-ol (67-63-0)	Workers	Skin contact	long term – systemic effects	888 mg/kg
	Workers	Inhalation	long term – systemic effects	500 mg/m3



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	Consumers	Ingestion	long term – systemic effects	26 mg/kg
	Consumers	Skin contact	long term – systemic effects	319 mg/kg
	Consumers	Inhalation	long term – systemic effects	89 mg/m3
N-(3- (trimethoxysilyl)propyl) ethylenediamine (1760-24-3)	Workers	Inhalation	long term – systemic effects	35.5 mg/m3
	Workers	Skin contact	long term – systemic effects	5 mg/kg
	Workers	Skin contact	short term – systemic effects	5 mg/kg
	Consumers	Oral	long term – systemic effects	2.5 mg/kg
	Consumers	Inhalation	long term – systemic effects	8.7 mg/m3
	Consumers	Skin contact	long term – systemic effects	2.5 mg/kg
	Consumers	Skin contact	short term – systemic effects	17 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
aluminium (7429-90-5)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
propan-2-ol (67-63-0)	Soil	28 mg/kg
	Fresh water	140.9 mg/l
	Fresh water sediment	552 mg/kg
	Marine water	140.9 mg/l
	Marine sediment	552 mg/kg
	STP	2251 mg/l
N-(3- (trimethoxysilyl)propyl)ethylenedia mine (1760-24-3)	Fresh water	0.062 mg/l
	Marine water	0.0062 mg/l
	clarification plant	25 mg/l
	Fresh water sediment	0.22 mg/kg
	Marine sediment	0.022 mg/kg
	Soil	0.0085 mg/kg

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8.2 Exposure controls

Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer

concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective

gloves.

Skin and body protection : Long sleeved clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration

requires.

In the case of dust or aerosol formation use respirator with an

approved filter.

Environmental exposure controls

Water : The product should not be allowed to enter drains, water

courses or the soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Pasty solid
Colour : silver
Odour : solvent-like
Odour Threshold : No data available
pH : No data available

Freezing point : No data available

Boiling point/boiling range : 82 °C

according to Regulation (EC) No. 1907/2006



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Flash point : 13 °C

Evaporation rate : No data available
Flammability (solid, gas) : No data available
Auto-flammability : not auto-flammable

Upper explosion limit : No data available Lower explosion limit : No data available Vapour pressure : No data available Relative vapour density : No data available Relative density : No data available Density : 1.3 - 2.0 g/cm3

Bulk density : No data available Water solubility : No data available Solubility in other solvents : No data available Partition coefficient: n-octanol/water : No data available Ignition temperature : No data available Decomposition temperature : No data available Viscosity, dynamic : No data available Viscosity, kinematic : No data available

Explosive properties : Not explosive Vapours may form explosive mixture

with air.

: No data available

Oxidizing properties : No data available

9.2 Other information

Flow time

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with alkalis, acids, halogenes and oxidizing agents.

Contact with acids and alkalis may release hydrogen. Mixture reacts slowly with water resulting in evolution of

hydrogen.

Vapours may form explosive mixture with air.

Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Do not allow to dry.

Heat, flames and sparks.

according to Regulation (EC) No. 1907/2006



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10.5 Incompatible materials

Materials to avoid : Acids

Bases

Oxidizing agents

Highly halogenated compounds

10.6 Hazardous decomposition products

Contact with water or humid

air

: This information is not available.

Thermal decomposition : This information is not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

7429-90-5:

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

67-63-0:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

1760-24-3:

Acute oral toxicity : LD50 (Rat): ca. 2,400 mg/kg

Acute inhalation toxicity : LC50: 1.49 - 2.44 mg/l

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Further information

Product:

according to Regulation (EC) No. 1907/2006



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Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological

information

: Remarks: No data available

SECTION 13: Disposal considerations

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company. In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

according to Regulation (EC) No. 1907/2006



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SECTION 14: Transport information

14.1 UN number

 ADR
 : UN 1325

 IMDG
 : UN 1325

 IATA
 : UN 1325

14.2 UN proper shipping name

ADR : FLAMMABLE SOLID, ORGANIC, N.O.S.

(Aluminium pigment paste)

IMDG : FLAMMABLE SOLID, ORGANIC, N.O.S.

(Aluminium pigment paste)

IATA : Flammable solid, organic, n.o.s.

(Aluminium pigment paste)

14.3 Transport hazard class(es)

ADR : 4.1 IMDG : 4.1 IATA : 4.1

14.4 Packing group

ADR

Packing group : II
Classification Code : F1
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

IMDG

Packing group : II
Labels : 4.1
EmS Number : F-G,S-G

IATA

Packing instruction (cargo : 448

aircraft)

Packing instruction : 445

(passenger aircraft)

Packing instruction (LQ) : Y441
Packing group : II

Labels : Flammable Solid

Remarks : IMDG Code segregation group 15 - Powdered metals

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

according to Regulation (EC) No. 1907/2006



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Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern

(Regulation (EC) No

1907/2006 (REACH), Article 57).

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of R-Phrases

R11 : Highly flammable.
R20 : Harmful by inhalation.
R36 : Irritating to eyes.

R41 : Risk of serious damage to eyes.

R43 : May cause sensitisation by skin contact.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R67 : Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225 : Highly flammable liquid and vapour.

H228 : Flammable solid.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H336 : May cause drowsiness or dizziness.

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Chronic aquatic toxicity Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

according to Regulation (EC) No. 1907/2006



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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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